

SHNEYEROV, Ya.A., kand. tekhn. nauk

Conference on semi-killed and capped steel. Met. i gornorud. prom.
(MIRA 17:8)
no.6:77-79 N-D '62.

GURSKIY, G.V.; SHNEYEROV, Ya.A.; YAKUBOVICH, M.A.

Carry out the decisions of the All-Union Conference of Steelmakers.
Stal' 24 no.7:577-583 Jl '64. (MIRA 18:1)

SHNEYEROV, Ya.A.; SAVCHENKOV, V.A.; PANICH, B.I.; MONAKHOVA, L.V.; SOTNIK, I.S.;
SOKOLOVSKIY, P.I.; MULIN, N.I.

Using reinforcements of St.5ps semi-killed steel. Stal' 24 no.11:
1025-1030 N '64. (MIRA 18:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut metallov, TSentral'nyy
nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy i Nauchno-
issledovatel'skiy institut betona i zhelezobetona.

SHNEYEROVA, A. G.

USSR/Medicine - Diphtheria
Medicine - Toxin - Antitoxin

Mar 1943

"Course of Diphtheria in Inoculated Children," R. I. Zettel'-Kogan, A. G. Shneyerova,
Clinic Children's Infectious Diseases, Sverdlovsk Med Inst, Sverdlovsk Inst for
Protection of Motherhood and Childhood, 1 p

"Sovets Medits" No 3

Among diphtheria patients hospitalized in 1944, considerable number (44.7%) had been
immunized. Study of the Difference in the clinical course of diphtheria in patients that
had been immunized against diphtheria and patients that had not been immunized. Among
those immunized, there was not a single fatal case.

PA 51T50

SHNEYEROVA, G.V.

Use of the Ural-2 electronic digital computer as a gas
consumption indicator. Gaz.prom. 10 no.11:33-38 '65.
(MIRA 19:1)

SHABALIN, Georgiy Ivanovich, inzh. Prinimali uchastiye: VILAND, S.M.,
inzh.; SHNEYEROVA, L.S., inzh. CHLENOV, M.T., kand.tekhn.
nauk, retsenzent; SERGEYEVA, A.I., inzh., red.; VOROTNIKOVA,
L.F., tekhn.red.

[Railroad track inspection] Tekhnicheskie osmotry zhelezno-
dorozhnogo puti. Moskva, Vses.izdatel'sko-poligr.ob"edinenie
M-va putei soobshcheniya, 1961. 139 p. (MIRA 14:12)

1. Upravleniye Oktyabr'skoy dorogi (for Viland, Shneyerova).
(Railroads--Track)

10(4); 21(5); 24(8) PHASE I BOOK EXPLOITATION SOV/2457

Vsesoyuznaya nauchno-tehnicheskaya konferentsiya po primeneniyu radioaktivnykh i stabil'nykh izotopov i izlucheniy v narodnom khozyaystve i naуke. 2d, Moscow, 1957

Teplotekhnika i gidrodinamika; trudy konferentsii, tom. 4 (Heat Engineering and Hydrodynamics; Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science, Vol 4) Moscow, Gosenergoizdat, 1958. 88 p. Errata slip inserted. 2,500 copies printed.

Sponsoring Agencies: Akademiya nauk SSSR, and USSR. Glavnoye upravleniye po ispol'zovaniyu atomnoy energii.

Eds.: M. A. Styrikovich (Resp. Ed.), G. Ye. Kholodovskiy, and M. S. Fomichev; Ed. of Publ. House: L. N. Sinel'nikova; Tech. Ed.: N. I. Borunov.

PURPOSE: This collection of articles is intended for scientists and laboratory workers concerned with the use of radioactive and stable isotopes.

Card 1/5

Heat Engineering (Cont.)

SOV/2457

COVERAGE: This collection of papers deals with the application of radioactive and stable isotopes as measuring tools in various types of scientific investigation. No personalities are mentioned. References are given after some of the articles.

TABLE OF CONTENTS:

1. Miropol'skiy, Z.L., and R.I. Shneyerova. Measurement of Volumetric Vapor Content in Steam-generating Elements With the Aid of Gammaradioscopy	3
2. Bartolomey, G.G., Ya.G. Vinokur, V.A. Kolokol'tsev, and V.I. Petukhov. Use of Gamma Rays for Studying the Process of Diffusion	9
3. Kutateladze, S.S., and V.N. Moskvicheva. Use of Gammaradioscopy for Studying the Hydrodynamics of a Multifluid System	12
4. Poletavkin, P.G., and N.A. Shapkin. Method of "Tagged" Atoms for Investigating Water and Steam Content in Surface Boiling of a Fluid	16

Card 2/5

Heat Engineering (Cont.)

SOV/2457

5. Kudryavtsev, V.S. Determining the Specific Surface Area of Quartz and Cement Powders by the Sorption Method With the Use of "Tagged" Atoms 20
6. Moskvin, V.M., and I.I. Kurbatova. Use of Radioactive Isotope S³⁵ for Studying Sulfate Corrosion of Concrete 28
7. Tsytovich, N.A., V.I. Ferronskiy, and V.A. Lukin. Methods for Determining the Density and Moisture Content of Soils With the Aid of Radioactive Emissions 33
8. Polozova, L.G., and R.P. Reyzman. Study of the Processes of Moisture Transfer in Building Materials by Means of Gammaradioscopy 38
9. Styrikovich, M.A., I.Kh. Khaybullin, and L.K. Khokhlov. Use of Radioactive Isotopes for Investigating the Solubility of Salts in Water Vapor at High Pressures 41
10. Sterman, L.S., A.Ya. Antonov, and A.V. Surnov. Investigation of the Characteristics of Vapor at a Pressure of 185
Card 3/5

Heat Engineering (Cont.)

SOV/2457

abs. atm. With the Aid of Radioactive Isotopes	46
11. Dubrovskiy, V.A. Use of Radioactive Isotopes for Observing the Motion of the Molten Glass Mass in Glass Furnace Tanks	52
12. Rachinskiy, V.V. Use of Radioactive Isotopes in Studying the Filtration of Fluids Through Porous Media	57
13. Leypunskaia, D.I., and A.Ya. Pruslin. Radioisotope Methods for Investigating Flow Processes of Fluids in a Porous Medium	62
14. Borts, M.A., L.S. Zarubin, V.S. Kaminskiy, and L.L. Korsak. Investigation of the Hydrodynamics of a Fluid in the Conical Rotor of a Settling Centrifuge With the Aid of Radioactive Isotopes	67
15. Volarovich, M.P., N.V. Churayev, and B.Ya. Minkov. Invest- igations of the Motion of Water in Peat Under Laboratory and Field Conditions With the Use of Radioactive Isotopes	72

Card 4/5

Heat Engineering (Cont.)

SOV/2457

16. Arkhangel'skiy, M.M. Use of Radioactive Isotopes for Investigating Suspensions of River Silt 78
17. Veynik, A.I., and A.S. Shubin. Use of Radioactive Isotopes for Investigating the Mechanism of the Drying Process 85

AVAILABLE: Library of Congress

IS/jb
10-28-59

Card 5/5

SOV/96-58-6-11/24

AUTHOR: Miropol'skiy, Z.L., Cand.Tech.Sci. and Shneyerova, R.I., Engineer.

TITLE: The generalisation of experimental data on temperature conditions in the metal of horizontal and slightly sloping boiling tubes.
(Obobshcheniye eksperimental'nykh dannykh po temperaturnym rezhimam metalla gorizonttal'nykh i slabo naklonennykh kipyatil'nykh trub)

PERIODICAL: Teploenergetika, 1958, . . . No.6. pp. 56-60 (USSR)

ABSTRACT: When a steam/water mixture moves in slightly sloping tubes, it separates out into layers, so that the tube is unevenly heated. The effect depends on a large number of factors and many tests had to be made in the study of it. The tests were made on two semi-full-scale rigs: a closed-circuit circulating system with an oil-fired furnace in Regional Electric Power Station No.2. of Mosenergo, and a rig of the direct-flow type using externally supplied steam and water in the Heat and Electric Power Station of the All-Union Thermotechnical Institute, where the experimental sections were radiantly heated by electric furnaces. In most tests the tubes were heated uniformly over the perimeter, but some were heated from one side only. In the tests at the All-Union Thermotechnical Institute, in addition to wall temperature measurements, the steam/water flow structure was studied by means of γ irradiation. The test conditions are tabulated; some of the results have already been published. The present article attempts to work out the test data

Card 1/3

SCV/96-58-6-11/24

The generalisation of experimental data on temperature conditions in the metal of horizontal and slightly sloping boiling tubes.

obtained in this work by means of dimensionless criteria, and a procedure is proposed for calculating the wall temperatures of horizontal and sloping boiling tubes. Separation into layers occurs over a wide range of circulation and pressure conditions. Under such conditions the temperature of the lower part of the tube, where the water is, is little above the saturation temperature; in the upper part of the tube cooling occurs by transmission of heat to the steam. An equation is given to determine the maximum temperature and the assumptions made in its derivation are described. To use this equation directly for practical calculations, one would need to know the variations in the heat-transfer coefficient to wet steam in contact with the upper part of the tube and the proportion of the tube perimeter that is free of liquid under various experimental conditions. As this information is lacking, the test data must be formulated as dimensionless criteria and the relationships between them indicated. The appropriate dimensionless formulae are then derived. Equation (2) for the temperature difference between top and bottom of the tube, is a function of 14 dimensional magnitudes, and is reduced to an equation with nine dimensionless criteria. Available test data is then used to express this formula concretely. Criteria required in the work are plotted in figs. 1. and 2. Finally, an expression is

Card 2/3

SOV/96-58-6-11/24

The generalisation of experimental data on temperature conditions in the metal of horizontal and slightly sloping boiling tubes.

obtained by means of which the test data can be worked out. A graph of the test results for a uniformly heated horizontal tube worked out in this way is given in fig.3, with an equation defining the best line through the points. The scatter of the test points is accentuated because they relate to a variety of rigs and not all are equally accurate. The concurrence between the straight line and the results of various authors is discussed. When the tube is heated from one side only, the highest temperatures occur on the side of the tube where the heat flux is greatest. The maximum temperatures were the determining factor in working out the test data, and an equation is given that corresponds to the results given in fig.4. The case of sloping tubes is similarly treated by an equation and fig.5. The results show that the least permissible circulation rates depend on numerous factors, but at high temperatures and rates of heat flow, very high circulation speeds would be required to secure uniform temperature distribution round the tube. The possibility of drops of highly-concentrated salt solutions forming in the tubes must be considered, and the probable behaviour of various salts present in boiler water is discussed. There is 1 table, 6 figs. & 12 lit.references (Soviet)

ASSOCIATION: Power Institute Acad. Sci. USSR. (Energetickeskiy Institut AN SSSR)

Card 3/3 1. Boiler tubes--Thermal effects 2. Boiler tubes--Test methods

Akademija nauk SSSR. Energetika
O. M. Krestchmarovskiy

Teplotergetika vyp. 1 (Heat Power Engineering, Nr 1) Moscow, 1959. 143 p. Erratum slip inserted. No. of copies

printed not given.

Ed. of Publishing House: V. A. Kotov; Tech. Ed.: Yu. V. Belyi;
Editorial Board: V. A. Baum, Doctor of Technical Sciences;
Professor (Rep. Ed.) O. Ye. Khodorovskiy, Doctor of Technical Sciences;
S. Solntsev, N. Kurchatov, Candidate of Technical Sciences (Secretary);
Z. L. Grodol'skiy, Candidate of Technical Sciences.

PURPOSE: This work is intended for scientists and engineers working in the field of steam boilers.
CONTENTS: This is a collection of 9 articles on the circulation of water and water-vapor mixture in boiler, bubbling processes, pulsation of pressure, temperature fields in combustion chambers, radiation heat transfer between gray bodies, and the solution of nonlinear problems of mathematical physics. There is also an article describing processes occurring in the steam boiler of a solar heat energy station. References appear at the end of each article.

Each article was conducted at thermohydroelectric laboratories in cooperation with Heat and Electric Power Plant (TEPS) No. 9.

Berlebovich, O., Ya. G. Vinogradov, V. A. Kolokolovskiy, and Ossipov, I. P. Investigation of Vapor and Gas Content in a Bubbling Process 40

It was found that the distribution of volume vapor content and air content along the elevation of the bubbling zone at insignificant reduced velocities of vapor or air, and at low boiler water salt content, remains qualitatively the same under various pressures and characteristics of the perforated plate. An increase in the weight level at atmospheric pressure results in a decrease of vapor content. An increase in the reduced velocity of steam when the water is of low salt content increases the volume vapor content.

Semenov, M. I. Pulsations of Pressure in the Flow of Gas-Liquid Mixtures in Pipes 46

This article describes experiments in pressure pulsation in

four 1/4" long pipes of different diameters—25.8, 47.4, 74.7 and 99.8 mm. The flow velocity changed from 0.2 to 5 m/sec. The gas content changed from 0.5 to 0.95. Graphical representation of experimental results are given.

Marepol'skiy, Z. I., and B. I. Shmelevova. Investigation of a Flow of Vapor-Water Mixture in Pipes by Radiation 53

In this article the authors describe problems in determining the average values of steam volume conversion in pipes, and in conduits of rectangular cross section. The results obtained are also valid for conduits of arbitrary geometrical shapes. Diagrams and graphs are given.

Burustalov, B. A. and S. S. Filimonov. Temperature Fields in Combustion Chambers 62

Three kinds of furnace heating chambers were investigated. Experimental data show that under condition of approximate self-similarity temperature fields these chambers perform according to law. It is stated that the approximate independence of dimensionless temperature fields from the ratio occurs in various combustion chambers which differ from each other according to geometric characteristics and the type of combustion processes.

Shnogolov, D. N. Steam Boilers of a Solar Heat Energy Station 70

The author presents data on the performance of steam boilers operating on solar heat energy. General diagrams of a boiler and tables of principal characteristic are given.

Surinov, Yu. A. Investigation of Radiation Heat Transfer in Systems of Gray Bodies 79

The author develops a theory of radiation and radiation heat transfer. The equations appearing in this article permit a theoretical-probability interpretation. The article is divided into two parts: 1) Solution of a mixed problem on radiation exchange in a system of gray bodies in a diathermic medium, and 2) Solution of a mixed problem of radiation heat

SHNEYEROVA, R.I., inzh.; SHVARTS, A.L., kand.tekhn.nauk; MIROPOL'SKIY,
Z.L., kand.tekhn.nauk; LOKSHIN, V.A., kand.tekhn.nauk

Experimental study of the real steam contents and useful heads
in tilted pipes. Teploenergetika 8 №.4:63-67 Ap '61.
(MIRA 14:8)

1. Energeticheskiy institut AN SSSR i Vsesoyuznyy teplotekhnicheskiy
institut.

(Boilers)

MIROPOL'SKIY, Z.L.; SHNEYEROVA, R.I.

Use of bremsstrahlung in studying the phase composition of a steam-water mixture in a heated tube. Teplofiz. vys. temp. 1 no.1:112-117
Jl-Ag '63. (MIRA 16:10)

1. Energeticheskiy institut im. G.M.Krzhizhanovskogo.

MIROHOLSKII, Z. L.; SHNEYEROVA, R. I.

"Measurement of volumetric vapor content in a steam-generating tube with the aid of bremsstrahlung."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

Krzhizhanovskiy Power Inst.

MIROPOL'SKIY, E.L., kand. tekhn. nauk; SHITSMAN, M.Ye., kand. tekhn. nauk;
SHNEYEROVA, R.I., inzh.

Effect of the heat stream and velocity on the hydraulic resistance
of a steam and water mixture in pipes. Teploenergetika 12 no.5:67-
70 My '65. (MIRA 18:5)

1. Energeticheskiy institut im. G.M.Krzhihanovskogo.

CA

Parameters characteristic of the flow of aviation oils at low temperatures. S. L. Persakholina, R. N. Shneerova, and G. S. Taramanyan. Akad. Nauk S.S.R., Otdel. Tekh. Nauk, Inv. Matematicheskaya, Sovetskanevynkust Zhdokostel i Kollind. Rastvor (Conf. on Viscosity of Liquids and Colloidal Solns.) 2, 155 (6) (1944).

The min. temp. t' of mobility of lubricating oils dispensed to the motor by a rotating-pump app., defined as the lowest temp. at which in one revolution of the pump not less than 0.08 g. of oil is yielded, was compared with the f. p. of the oil, t_f , defined by a U.S.S.R. specification by a test consisting in heating the oil in a test tube to 50° and cooling to the temp. at which the oil will not move for 5 min. when the tube is inclined at 45°. On 12 different oils it was demonstrated that $t_f - t'$ may vary from -10° to +8°. Two oils of nearly equal t_f (about -35°) were found to have t' differing by 15°. Two other oils with equal t' had t_f differing by 15°; in an extreme case, 2 oils freezing at -2° and -30°, resp., have practically the same t' , about -10°. Consequently, the freezing temp. is in no way a criterion for the low-temp. mobility of an oil from the point of view of its feeding to the motor. A "limiting viscosity" which can be theoretically defined as that viscosity at which an oil can still be fed through a given dispensing system cannot be practically detd.: on 10 different lubricating oils it is shown that at t' the viscosity may vary from 330 to 460 stokes; in individual cases it may even be considerably higher than that. One oil could be dispensed through the pump-feeding system at as low as -21°, even though its viscosity could be detd.

JZ

In a capillary viscometer (with addnl. 11g. column pressure) only down to -15°. The low-temp. behavior of an oil in a feeding system cannot, therefore, be predicted from viscometric measurements of the conventional type. Examples are further quoted demonstrating the absence of a direct relation between the low-temp. feeding behavior and the viscosity index: an oil, nitrobenzene-purified, viscosity at 100° = 2.21 E., t_f -32°, index 98; after deparaffination at -30° the index drops to 93; however at -20° the deparaffined oil shows a viscosity of 300 stokes as against 625 prior to deparaffination. An oil of 2.92 E. at 100° after deparaffination, index without addn. 95, with 1% Parallow 99; at -10°, the oil without addn. shows 185 stokes, with Parallow 897. In many cases present of minute amounts of paraffin or addn. of Parallow alter drastically the low-temp. feeding characteristics; whereas the viscosity index may vary only insignificantly. It is not necessarily true that at equal viscosity at 100°, a better viscosity index means higher viscosity at low temp.; very often, but not always, the reverse will hold. Inasmuch as the low-temp. feeding behavior of an oil cannot be predicted from either the freezing temp., the value of the viscosity, or the viscosity index, it can be detd. directly only in a dispensing setup duplicating the actual service conditions in the motor.

N. Thor

ASA SLA METALLURGICAL LITERATURE CLASSIFICATION

SHNEYEROVA, R.N.

USSR/ Chemistry - Physical chemistry

Card 1/1 Pub. 147 - 9/21

Authors : Zaslavskiy, Yu. S.; Kreyn, S. E.; and Shneyerova, R. N.

Title : Study of the reaction of anticorrosion admixtures to oil by the radioactive indicator method

Periodical : Zhur. fiz. khim. 29/10, 1815-1821, Oct 1955

Abstract : A new method for the study of films formed on metal surfaces by anti-corrosive admixtures was introduced. It was found that the protective film forms with the participation of the basic components of the anti-corrosion admixture, namely, the sulfur or phosphorus. The dependence of the protective film formation upon time, oil temperature, admixture concentration in the oil and the surface of the metal is explained. The complex nature of the protective film formation because of the adsorption processes and the chemical reaction between admixture and metal is discussed. Two USSR references (1951 and 1954). Graphs.

Institution :

Submitted : January 11, 1955

SHNEYEROVA, R. N.

✓ Use of labeled atoms in the study of the action of anticorrosive additives in oils.
Yu. S. Zaslavskii, S. E. Krein, E. N. Shneerova, and G. I. Shor. Khim. i Tekhnol. Topliva 1956, No. 4, 37-49. --In expts. carried out by the COST-5162-49 method, films deposited on Pb, Cu, Pb bronze, and steel III plates by lubricating oils of the type MK-22, contg. 0.5% $\text{Pb}_3\text{P}_2\text{O}_3$ (I) and 0.5% sulfonated (S^{35}) oil were measured after 1, 5, 10, 15, 20, 25, 30, 40, 50, 60, 90, 120, 150, 180 min. and afterwards every hr. at 90, 110, 140, 170, 200, and 220° for a total of 10 hours at each temp. The wt. of the film was calcd. from the equation $x = mg/n$, where m is the measured impulse/min. for the tested plate, g the wt. (mg.) of the deposited radioactive substance on the plate, n the av. radioactivity of the control plate detd. every day. The sensitivity of the method was 10^{-7} - 10^{-8} g. For every temp. the wt. of the film contg. I rapidly increased to a value characteristic for each metal, and then leveled off. With an increase in temp., the rate of film formation sharply increased; however, the wt. of the film decreased. Analogous results were obtained with the sulfonated oils. Analysis of the plates showed that they contained S^{35} ; the depth of penetration for each metal was directly related to the temp., reaction time, and concn. of the additive. The penetration was greatest (about 0.01 mg./sq.cm. 140μ deep after 8 hrs. at 140° with 1% S^{35} in the oil) for Pb bronze. The kinetics of film formation were also followed by measuring the radio-activity of the oils (MT-16, MT-16p, MK-22) induced by Pb, cast iron, and steel plates contg. about 0.001% Sb^{124} after 30 hrs. at 110, 140, 170, 185, 200, and 220°. Max. corrosion for each metal and each oil occurred at about 170°. The addn. of inhibitors first decreased the corrosion but after the

Zaslavskii, Yu. S., Krein, S. E., Shneerova, R. N.,
point corresponding to the max. gain in wt. of the protective film was reached, the
intensity of the corrosion increased and the wt. of the film decreased. From these
results it is concluded that the principal effect of the additives in the oils
consists of the formation of a protective film on the metal surface. Two competing
processes occur simultaneously: (1) film formation between the additive and the
metal and the increase in the thickness of the film caused by addnl. adsorption;
(2) oxidation of oil which leads to the formation of acids, phenols, etc., and their
salts, which gradually destroy the protective film.

A. P. Kotloby

2/2

fm

- SHNEYEROVA, R.N.

Radiochemical determination of the stability of solutions
of additives in lubricating oils. Yu. S. Zaslavskii, R. N.
Shnycrova, and C. I. Shor. *Zhurnal Tekhnicheskoy Kemi*, 22, 417-18
(1958).—The stability of the additive solns. was detd. by
adding substances contg. radioactive Ca^{45} , Sr^{89} , Pb^{210} , and Co^{60} ,
centrifuging the oil soln., and measuring the radioactivity of
the filtrate. The presence of H_2O in the oil was found to
decrease stability. W. M. Sternberg

All-Union Sci. Inst. po pererabotke nefti i gaza
i proizvodstvu iskusstvennogo zhuikogo topliva

ZASLAVSKIY, Yu. S., SHNEYEROVA, R. M., SHOR, G. I., and KUZNETSOVA, A. I.

"Radiochemical Investigation of the Stability of Solutions of Additives in Oils."
pxx1xx25r p. 107.

"Radiochemical Investigation of the Action of Oil Additives." p. 85.

in book Study and Use of Petroleum Products, Moscow, Gostekhizdat, 1957, 213 pp.

This collection of articles gives the results of the sci. res. work of the AU Sci. Res. Inst. for the Processing of Petroleum and Gas for the Production of Synthetic Liquid Fuel.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820005-7

ZASLAVSKIY, Yu.S.; KREYN, S.E.; SHNEYEROVA, R.N.; SHOR, G.I.

Radiochemical study of the mechanism of action of additives for
oils. Trudy VNII NP no.6:85-106 '57. (MIRA 10:10)
(Lubrication and lubricants) (Corrosion and anticorrosives)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820005-7"

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820005-7

ZASLAVSKIY, Yu.S.; SHNEYEROVA, R.N.; SHOR, G.I.; KUZNETSOVA, A.I.

Radiochemical analysis of the stability of additives in oil.
Trudy VNII NP no.6:107-116 '57. (MIRA 10:10)
(Lubrication and lubricants) (Radioactive tracers)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820005-7"

ZASLAVSKIY, Yu. and SHOR, G. and SHNEYEROVA, R.

"Researches into The Mechanism of Protection of Friction Surfaces From Corrosive Wear."

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sept 58.

СИНЕЙ ЕРОУА А.Н.

Справочник. Гламоное применение по испытаниям
атомной энергии и Академия наук СССР.

Editorial Board of Sci.: V.I. Dikubin, Academician (Resp. Ed.), N.N.
Shunailovskiy (Deputy Resp. Ed.), Yu. S. Zaslavskiy (Deputy Resp.
Ed.), F. K. Tatischevko, B.F. Verkhovskiy, S.R. Nararov, L.I. Petrenko,
and M.O. Zelevinskaya (Secretary).

Ed. of Publishing House: P.N. Balyantin; Tech. Ed.: T.P. Polenova.

PURPOSE: This book is intended for specialists in the field of machine and instrument manufacture who use radioactive isotopes in the study of materials and processes.

COVERAGE: This collection of papers covers a very wide field of the utilization of tracer methods in industrial research and control techniques. The topic of this volume is the use of radioisotopes in the machine and instrument-manufacturing industry. The individual papers discuss the applications of radiotopic techniques in the study of metals and alloys, problems of friction and lubrication, metal cutting, engine performance, and defects in metals. Several papers are devoted to the use of radioisotopes in the automation of industrial processes, recording and measuring devices, quality control, flowmeters, level gauges, safety devices, radiation counters, etc. These papers represent contributions of various Soviet institutes and laboratories. They were published as transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science, April 1-12, 1957. No personalities are mentioned. References are given at the end of most of the papers.

Nikitin, M.D. (Scientific-Research Institute of Diesel and Tractor Research Institute). Effect of the Number of Revolutions and Maximum Cycle Pressure on the Wear of Upper Piston Ring and Cylinder Sleeve in Diesels 43

Nizamovich, A.I. (Nauchno-issledovatel'skiy traktornyj institut - Tractor Research Institute). Study of the Effect of Dust on the Wear of Parts of Tractor Engines 47

Zaslavskiy, Yu.S., O.I. Sher, and I.A. Morozova (VNIIP po pererabotke nefti i gaza i polucheniyu iakh izvlechenii naftovogo i gazirovannogo topiva - All-Union Scientific Research Institute for the Processing of Petroleum and Gas and the Production of Synthetic Liquid Fuels). Reduction of the Low-temperature Wear of Cylinder-Piston Units in Engines by the Use of Oil Additives 52

Zaslavskiy, Yu.S., S.K. Krem, R.M. Shmelev, and G.I. Sher (VNIIP po pererabotke nefti i gazy i polucheniyu iakh izvlechenii naftovogo i gazirovannogo topiva - All-Union Scientific Research Institute for the Processing of Petroleum and Gas and the Production of Synthetic Liquid Fuels). Study of the Mechanism of the Action of Anticorrosive Oil Additives 64

Narakov, M.M., G.V. Vinogradov, K.A. Karusovskaya, L.I. Savina, and A.Y. Ulyanova (Institut nefti AN SSSR - Petroleum Institute, Academy of Sciences, USSR). Study of the Mechanism of the Interaction of Oil Additives with Metals 67

Studits, Ye.Z. (Vsesoyuznyj nauchno-issledovatel'skiy ugel'nyj institut - All-Union Mining Research Institute). Study of the Wear of Gears in Mining Machinery 73 (1)

S I T N E Y E R O U A , R.N.

- 1) BOOK REPRINTED
BY/2/21
- International Conference on the Peaceful Use of Atomic Energy. 2nd, Geneva, 1958
Biology Soviet Scientific Production and Isotopes (Reports of Soviet Scientists). Production and Application of Isotopes. Moscow, Academy, 1959. 360 p. (series: Issled. vol. 6) 8,000 copies printed.
- Eds. (title page): G.Y. Furshteyn, Academician, and I.I. Morozov, Corresponding Member, USSR Academy of Sciences; Eds. [Inside book]: Z.D. Andreyenko, Tech. Ed.: Z.D. Andreyenko.
- PURPOSE: This book is intended for scientists, engineers, physicians, and biologists engaged in the production and application of atomic energy to peaceful uses; for professors and graduate students at institutes of peaceful schools; for technical schools where nuclear science is taught; and for the general public interested in atomic science and technology.
- CONTENTS: This is volume 6 of a 6-volume set of reports delivered by Soviet scientists at the Second International Conference on the Peaceful Use of Atomic Energy held in Geneva from September 11 to 13, 1958. Volume 6 contains 35 reports on: 1) isotrons which for the production of stable radioactive isotopes and their labeled compounds; 2) research results obtained with the aid of isotopes in the field of chemistry, metallurgy, machine building, and agriculture; 3) applications of ionizing radiation. Volume 6 was edited by G.Y. Furshteyn, Candidate of Medical Sciences; V.M. Mal'kov, Candidate of Chemical Sciences; and V.V. Slobod, Candidate of Physical Sciences. See Sov. 2031 for titles of volumes of this set. References appear at the end of the articles.
5. Furshteyn, G.M., and V.B. Dolov. Means of Development Report No. 2025) in the Radioisotope Laboratories of the AI EICHI (Report No. 2025)
4. Mal'kov, M.P., A.G. Zaitsevich, A.B. Frakher, and I.B. Danilov. Correspondence of General Production of Detergent by the Low-Temperature Distillation Method (Report No. 2023)
5. Gordeevskii, I.O., B.Ya. Kishnerov, and V.M. Tikhonov. Separation of Isotopes by Diffusion in a Steam Flow (Report No. 2026)
6. Zolotarev, V.S., A.I. Tr'lin, and Ya.O. Kossov. Separation of Isotopes on Electromagnetic Units in the Soviet Union (Report No. 206)
7. Al'skayev, N.A., S.P. Bal'ts, V.S. Zolotarev, B.V. Panin, Ye.S. Chernomordik, and O.Ya. Shchepkin. Separation of Isotopes of Non-Earth Elements by the Electromagnetic Method (Report No. 2217)
8. Morozov, P.M., P.N. Makov, M.S. Ioffe, L.G. Broshnikov, and G.M. Franklin. Ion Sources for the Separation of Stable Isotopes (Report No. 203)
9. Neelkin, M.V., and P.M. Morozov. Electric Field Effect in Ion Beams on Stable Isotope Separation by the Electromagnetic Method (Report No. 2204)
10. Bogdanova, N.I., P.L. Gratin, G.I. Tereshkov, and I.D. Nikulin. Use of Radioactive Isotopes in Metallurgical Research (Report No. 2216)
11. Shumakovskii, N.M., V.A. Temashovskii, and I.M. Taksar. The Theory and Practice of Hall-type Instruments Based on Radioactive Isotopes (Report No. 2212)
12. Zalesskaya, Yu.S., G.I. Shar, and R.M. Shchegoleva. Studying the Mechanism of Protection of Rubbing Surfaces Against Wear Due to Corrosion (Report No. 2130)
13. Furshteyn, G.Y., and L.N. Matysuk. The Nd¹⁴⁰, Eu¹⁵⁵, and Ce¹⁴⁴ Sources of Radiation for Checking Thin-Walled Products (Report No. 2235) 160
14. Frank, B.I., A.B. Zav'yavlev, and O.I. Kaprinskii. Studying the Redistribution of Elements in Metal Alloys and Weld Compounds by Autoradiographs and Radiometric Methods (Report No. 2256)
15. Gordeevskii, P.I., A.I. Koval'yukhina, V.S. Yemelyanov, O.G. Ryborev, O.B. Fedorov. Studying the Formation and Distribution of Elements in Alloys of Zirconium and Niobium by the Radioactive Isotope Method (Report No. 2246) 169

5-(1) 10.9300

66188

SOV/20-128-5-42/67

AUTHORS: Zaslavskiy, Yu. S., Shor, G. I.,
Shneyerova, R. N.

TITLE: Mechanism of the Destruction of Protective Films Formed by
Anticorrosive Admixtures

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 5, pp 1010 - 1011,
(USSR)

ABSTRACT: The authors investigated this mechanism of chemical destruction so far unknown which limits the service life of the admixtures as lubricating oils in the engine. The problem in question is the protection of the bearing bush in combustion engines against corrosion caused by the oxidation products of the lubricating oil. The authors used the Pinkevich apparatus (GOST 5162-49) and a radiometric method worked out already earlier (Ref 2). Film destruction was investigated on the surface of lead. Lead plates were put into Mt-16 oil. In the first case, 2.8% of diphenyl sulphide labeled with S³⁵ and C¹⁴, and 0.066% of stearic acid were introduced into that oil; in the second case, the same amount of nonlabeled admixture and 0.05% of tri-decanoic acid labeled with C¹⁴ were introduced. Figure 1 shows

Card 1/3

4

66188

Mechanism of the Destruction of Protective Films Formed by Anticorrosive Admixtures SOV/20-128-5-42/67

the experimental results at 140°C. It appears that there is a synchronism in the formation and destruction of the film. It may be assumed that the synchronism of the vanishing of the acid together with the radicals of the admixture from the lead surface is related to the fact that the acid formed the metal-admixture complex by solvation due to its polarity. Thereby the acid carries over the radicals - because sulphur is more strongly bound to the metal than to the radicals - and disappears with them from the surface. The synchronism of the vanishing of the film formed by the acid and the film observed from sulphur radiation seems to be related to the chemical interaction of the acid with lead sulphide (it takes place after destruction of the complex of the admixture with the metal, i.e. with formation of a lead salt soluble in oil (Refs 1,3,4)). Reaction diagrams of formation and destruction of the protective film on the lead surface are given. Vanishing of the acid and radicals of the admixture in experiments with a phosphorus-containing admixture also showed synchronism (Fig 2). In this case, however, the film caused by the acid and the radicals of the admixture disappear completely and simultaneously. The acid

4

Card 2/3

66188

SOV/20-128-5-42/67

Mechanism of the Destruction of Protective Films Formed
by Anticorrosive Admixtures

seems not to react with the lead phosphide formed in the destruc-
tion of the admixture complex with metal due to solvation.
This may explain why phosphorus remains on the lead surface so
long after the radicals of the admixture have disappeared
(Ref 4). There are 2 figures and 4 references, 2 of which are
Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gaza i volucheniyu iskusstvennogo zhidkogo topliva

(All-Union Scientific Research Institute for Petroleum and
Natural Gas Refining and the Production of Synthetic Liquid
Fuels)

PRESENTED: May 18, 1959, by V. I. Dikushin, Academician

4

SUBMITTED: May 18, 1959

Card 3/3

S/081/62/000/005/084/112
B162/B101

AUTHORS: Zaslavskiy, Yu. S., Shor, G. I., Shneyerova, R. N.

TITLE: Mechanism of action of certain types of additives to oils
(washing, anticorrosion, and antiseizing additives)

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 5, 1962, 529,
abstract 5:217 (Sb. "Prisadki k maslам i toplivam".
M., Gostoptekhizdat, 1961, 168-173)

TEXT: Results of previous work of the authors on the mechanism of action,
selection and methods of evaluating the above types of additives in oils
are discussed and generalized. 21 references. Abstracter's note: Complete
translation.

Card 1/1

S/081/62/000/005/096/112

B160/B138

Radioactive tracer methods for...

was used to model the dispersed phase (oil oxidation and fuel combustion products). In the radioisotope method of studying the detergent properties of oils with additives the amount of gummy deposit was measured from the absorption of Co⁶⁰ beta radiation in it. The method of studying the detergent properties of oils with additives, based on the oxidation of a thin layer of oil on a heated strip of steel, has been improved by radiometric measurement of the deposits, using Ca⁴⁵ as a source. The chemical activity of antiscoring additives was estimated by determining the kinetics of the transitions from radioactive steel (irradiated with neutrons via Fe⁵⁹) or copper (activated by introducing tracer amounts of Ag¹¹⁰ into molten copper) to the oil, under the influence of the test additives. [Abstracter's note: Complete translation]

Card 2/2

REPRODUCED AT GOVERNMENT EXPENSE

11.9700 1583 2209

32530
S/065/61/000/012/004/005
E194/E135

AUTHORS: Zaslavskiy, Yu.S., Shor, G.I., Shneyerova, R.N.,
Kuznetsova, A.I., and Lebedeva, F.B.

TITLE: Reducing the corrosivity of extreme pressure (E.P.)
additives without impairing their effectiveness

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.12, 1961,
39-43

TEXT: Previous work by the authors has shown that whereas
anti-corrosion additives should have strongly bonded sulphur or
phosphorus in the molecule, E.P. additives should easily release
sulphur, phosphorus or chlorine to form compounds on the metallic
surfaces at high contact temperatures. This explains the well-
known correlation between good anti-wear properties and high
corrosivity. A combination of anti-wear and anti-corrosion
additive components should overcome the effect of delayed E.P.
action in high-speed friction tests. In surfaces subject to high
speed friction there is not always time for the E.P. additive to
operate. For laboratory tests of two component additives the

Card 1/5 X

32530
Reducing the corrosivity of S/065/61/000/012/004/005
E194/E135

authors developed radiotracer methods of determining the chemical activity of E.P. additives in oils in the presence or absence of friction. The chemical activity of the E.P. additives was assessed by determining the kinetics of solution of radioactive steel in oil or of copper which was activated with Ag¹¹⁰. Determination of the chemical activity relative to radioactive copper and steel were made with various sulphurised and chlorinated organic compounds and mixtures of these. For example, in tests with copper foil at a temperature of 150 °C it was found that chemical activity of the sulphur-containing additive dibenzyl disulphide and that of chlorinated wax were both much less than the chemical activity of a mixture of these additives. A mixture containing base oil plus 3% dibenzyl disulphide plus 7% chlorinated wax gave the best E.P. protection in the four ball test. When 6% of barium alkyl phenolate dissolved in oxypolymerized alkyl-phenol was added to the oil containing dibenzyl disulphide and chlorinated wax there was a marked diminution in corrosivity of the oil without impairment of the E.P. properties. However, the reduced corrosivity to copper lasted for only ten hours. The anti-corrosion properties of Card 2/5

X

32530

Reducing the corrosivity of ...

S/065/61/000/012/004/005
E194/E135

phosphorus-containing compounds were also tested on the assumption that effective protection of metallic surfaces against corrosion by atoms of chlorine and sulphur can be achieved by creating, not a molecular, but a more continuous atomic film which is less penetrable. To create such films the phosphorus-containing compounds must be soluble in the base oil and release phosphorus at considerably lower temperatures than the decomposition temperatures of the E.P. components. It was indeed found that the use of phosphorus-containing additives ensured effective reduction of corrosion of steel at an oil temperature of 200 °C in the presence of a mixture of dibenzyl disulphide and chlorinated wax. Moreover, four ball machine tests showed that the E.P. properties were not impaired. Tricresyl phosphate had no anti-corrosive effect, whilst triphenyl phosphate caused a marked reduction in corrosion. By using phosphorus-containing anti-corrosion components in blends with more chemically active E.P. additives, effective blends may be made using chemical compounds that hitherto have been rejected because of their high corrosivity. E.P. oils were tested on a friction machine in which

Card 3/5

X

32530

S/065/61/000/012/004/005
E194/E135

Reducing the corrosivity of

the rubbing surfaces are the ends of two hollow cast iron cylinders of 16 mm external diameter, one of which was radioactive. The tests were made at a speed of 600 r.p.m. with a load of 2.5 kg/cm² for a period of one hour. Typical test results show that the base oil gave a mean wear rate of 660 impulses/min of the counter; the base oil plus 3% of additive Λ3-6/9 (LZ-6/9) plus 7% chlorinated wax gave a wear rate of 1920 impulses/min. The same plus 0.5% triphenyl phosphite gave a wear rate of 840 impulses/min. Thus the triphenyl phosphite reduced the corrosivity of the E.P. oil to the level of the base oil. There are 3 figures, 1 table and 17 references; 11 Soviet-bloc and 6 non-Soviet-bloc. The four most recent English language references read as follows:

Ref. 11: J.S. Elliot, N.E. Hitchcock, E.D. Edwards.
Hypoid Gear Lubricants and Additives. J. of the Institute of Petroleum, v.45, no.428, 219-235, 1959.

Ref. 12: F.T. Barcroft. A Technique for Investigating Reactions between E.P. Additives and Metal Surfaces at High Temperatures. Wear, v.3, no.6, 413-500, 1960.

Card 4/5

X

Reducing the corrosivity of ...

32530
S/065/61/000/012/004/005
E194/E135

- Ref. 14: R.B. Campbell, L. Grunberg. Study of reactions of metals with sulphur and phosphorus compounds by pulsed temperatures. Paper no.RICC/32 at the International Conference on the use of isotopes in Physics and Industry (Copenhagen, September 6-17, 1960). Izd. MAGATE, Vena, 1961.
- Ref. 15: G. Hugel. Chemical nature of extreme pressure lubrication. Lubrication Engineering, v.14, no.12, 523-526, 1958.

ASSOCIATION: VNII NP

Card 5/5

X

ZASLAVSKIY, Yu.S.; SHOR, G.I.; SHNEYEROVA, R.N.; LEEDEVA, F.B.

Reducing chemical wear in using lubricating oils with antiseizing
additives. Tren.i izn.mash. no.15:486-494 '62. (MIRA 15:4)
(Lubrication and lubricants--Testing)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820005-7

ZASLAVSKIY, Yu. S.; SHOR, G. I.; MOROZOVA, I. A.; LEBEDEVA, F. B.; YEVSTIGNEYEV, Ye. V.;
SHNEYEROVA, R. N.

"New methods of investigation of lubricant properties."

report submitted for Intl Lubrication Conf, Washington, D.C., 13-16 Oct 64.

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820005-7"

ZASLAVSKIJ, J. [Zaslavskiy, I.S.]; SOR, G.I. [Shor, G.I.];
SNEJEROVA, R.N. [Shneyerova, R.N.]

Radio indicator research on the mechanism of action of
anticorrosion and antiseizing additives to lubricating
oils. Rop a uhlie 6 no.5:130-135 My '64.

1. All-Union Scientific Research Institute for the Pro-
cessing of Petroleum and Gas and for the Production of
Synthetic Liquid Fuel.

YELENEVSKIY, D.S.; SHNEYERSO, L.M.

Strength of steel parts subjected to chemical heat treatment
in case of asymmetric cycles of loading. Trudy Sem.po kach.-
poverkh. no.5:156-162 '61. (MIRA 15:10)
(Case hardening)

SHNEYERSON, A.A.; PARFENOVA, M.S.; FILONOVSAYA, M.G.

Typical structure of dysentery cultures of the Flexner group.
Zhur.mikrobiol.epid.i immun. no.3:89 Mr '54. (MLRA 7:4)

1. Iz Odesskogo instituta epidemiologii i mikrobiologii im. Mech-nikova.
(*Shigella paradysenteriae*)

SHNEYERSON, A.A.

Data on regional dysentery microbiology. Part 3: Dysentery caused by Shigella sonnei. Zhur. mikrobiol. epid. i immun. no.6:68 Je '54. (MLRA 7:7)

1. Iz Odesskogo instituta vaktsin i syvorotok im. Mechnikova.
(SHIGELLA SONNEI) (DYSENTERY)

SHNEYERSON, A.G., kand. biol. nauk.

In the struggle for higher livestock productivity. Veterinariia
34 no.2:10-13 F '57. (MLRA 10:11)

1. Starshiy nauchnyy sotrudnik Krasnoyarskoy nauchno-issledovatel'-
skoy veterinarno-opytnoy stantsii.
(Veterinary medicine)

BANNOV, A.T.; SHNEYERSON, A.G.

How scab was eliminated from sheep in Krasnoyarsk Territory.
Veterinariia 34 no.9:43-46 S '57. (MIRA 10:9)

1. Nachal'nik vetotdela Krasnoyarskogo kraysel'khozupravleniya
(for Bannov). 2. Starshiy nauchnyy sotrudnik Krasnoyarskoy nauchno-
issledovatel'skoy veterinarynoy stantsii.
(Krasnoyarsk Territory--Scab disease in sheep)

SHNEYERSON, A.G., kand.biologicheskikh nauk

Krasnoyarsk Veterinary Research Station. Trudy VIEV 23:378-379 '59.
(MIRA 13:10)
(Krasnoyarsk Territory--Veterinary research)

SHELEIKHON, A. G.

Vetv istot sv.

"Prevention of agricultural animals from blood -- sucking insects
in taiga."

Veterinariya Vol. 37, No. 3, 1960, p. 62

Krasnoyarsk NIVOS

SHELDON, A. I.

The acuteness of the general crisis of capitalism in its modern phase; lecture. Moskva
Fravida 1949. 23 p. (52-17971)

HC59.349

SHNEYERSON, Avraam Il'ich; KOSTIN, V.; red.; DANILINA, A., tekhn.red.

[Poverty in the midst of abundance] Nishcheta sredi izobiliia.
Moskva, Gos.izd-vo polit.lit-ry, 1959. 69 p. (MIRA 12:5)
(United States--Economic conditions)

L 58810-65 EWT(m)/EPF(c)/EPR/EWP(t)/EWP(b) PT-4/PS-4 IJP(c) JD
ACCESSION NR: AP5015691 UR/0076/65/039/006/1403/1407 29
542.48 + 541.123.3 26
AUTHOR: Shneyerson, A. L.; Miniovich, M. A.; Filippova, Zh. M.; Soroko, S. N.; 23
Platonov, P. A.

TITLE: Liquid-vapor equilibrium in the systems nitric acid-water-magnesium nitrate, nitric acid-water-calcium nitrate, and nitric acid-water-magnesium nitrate-calcium nitrate 27

SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 6, 1965, 1403-1407

TOPIC TAGS: magnesium nitrate, calcium nitrate, nitric acid, phase equilibrium, azeotropic mixture

ABSTRACT: The presence of magnesium nitrate, calcium nitrate or their mixtures in the HNO₃-H₂O system sharply increases the HNO₃ content in the vapor phase and displaces its azeotropic point, the effect of magnesium nitrate being more pronounced. For example, the equilibrium concentration of HNO₃ in the vapor phase over pure 20% HNO₃ is about 1.5%. However, when 60% Ca(NO₃)₂ or Mg(NO₃)₂ is present, the HNO₃ concentration in the vapor phase increases to 53.5 and 82.3%, respectively. The

1/4
Card

L 58810-65

ACCESSION NR: AP5015691

3

effect of the nitrates on the azeotropic point of nitric acid is approximately additive. Hence, in order to obtain the equilibrium vapor compositions for the system $\text{HNO}_3\text{-H}_2\text{O-Ca}(\text{NO}_3)_2\text{-Mg}(\text{NO}_3)_2$, it is sufficient to have data for the ternary systems $\text{HNO}_3\text{-H}_2\text{O-Ca}(\text{NO}_3)_2$ and $\text{HNO}_3\text{-H}_2\text{O-Mg}(\text{NO}_3)_2$ (see Figs. 1 and 2 of the Enclosure), as for example when calculations are made for the rectification of nitric acid in the presence of mixed impurities consisting of magnesium and calcium nitrate. "O.A. Manayenkova and K. V. Artoshchepko participated in the experimental work." Orig. art. has: 4 figures and 2 tables.

ASSOCIATION: Gosudarstvennyy institut azotnoy promyshlennosti (State Institute of the Nitrogen Industry)

SUBMITTED: 13Feb64

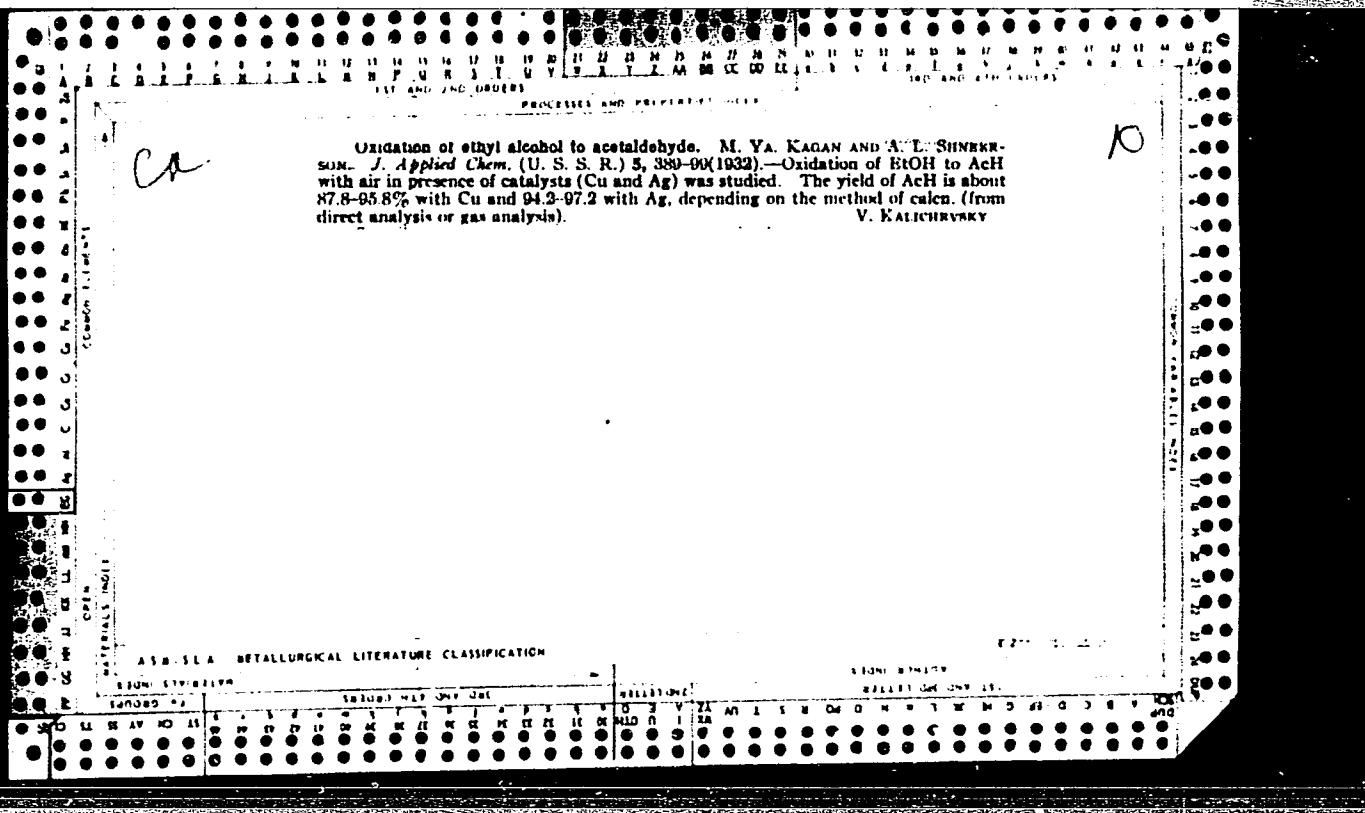
ENCL: 02

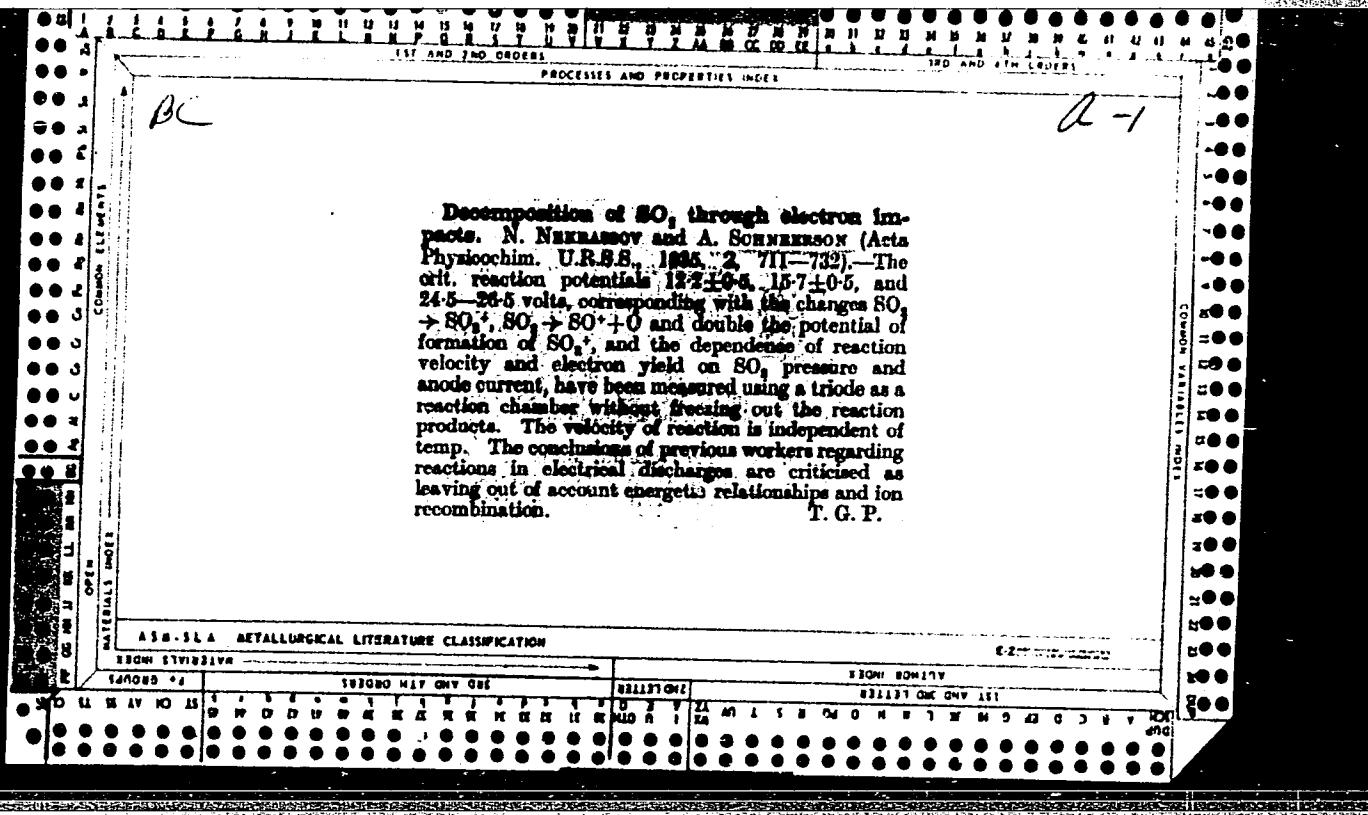
SUB CODE: IC

NO REF SOV: 003

OTHER: 004

Card 2/4





SHNEYERSON4ASLS

600

1. SHNEYERSON, A. L.; VASIL'YEV, S. S.
2. USSR (600)

"The Kinetics of the Dissociation of Nitrogen Oxide in an Electrical Discharge,"
Zhur. Fiz. Khim., 13, No. 9, 1939. Laboratory of Inorganic Catalysis, Moscow State
University, Institute of Chemistry. Received 25 February 1939.

[REDACTED] Report U-1005, 3 Jan 1952

Be

Q XII 1

Chemical induction. In the thermal cracking of methane. N. I. Kubasow and A. L. Schlesinger (Comm. rend. Acad. Sci. U.R.S.S., 1941, 38, 317-320).—The cracking of $\text{CH}_4\text{-C}_2\text{H}_6$ mixtures on heating has been investigated over five temperature ranges (800-1100°, 1200-1250°, 1300-1350°, 1400-1450°, 1500-1550°) in a C₂H₆ flow system. Cracking of C₂H₆ is greatly increased by the presence of C₂H₄. Up to +10% of the total products is C₂H₄; above this it is C₂H₆. The extent of conversion of C₂H₆ is ~100 times as great as that of C₂H₄. It is concluded that there must be some inductive effect favoring the cracking of C₂H₆ and that of C₂H₄. The primary product is $\text{CH}_2\text{Me} \rightarrow \text{C}_2\text{H}_4 + \text{H}_2$, and the secondary $\text{CH}_4 \rightarrow \text{C}_2\text{H}_4 + 2\text{H}_2$. A. J. M.

A. J. M.

卷之三

ABA-3L A METALLURGICAL LITERATURE CLASSIFICATION

Digitized by srujanika@gmail.com

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820005-7"

CA

Absorption of carbon dioxide by ethanamines. I. Rate of absorption of carbon dioxide in solutions of mono-, di-, and triethanolamine. A. L. Shnerson and A. G. Le-bush. *J. Applied Chem.* (U.S.S.R.) 19, 869-80 (1946) (in Russian).—At equil., at 50°, the concn. y of CO_2 , in moles per mole ethanamine, is related to its partial pressure p (from 10 to 700 mm. Hg) by $y = \alpha p^{\beta}$; from exptl. data of Mason and Dodge (*Trans. Am. Inst. Chem. Eng.* 32, 27(1830)) and from the authors' data, α and β have the values: for (I) $(\text{HOCH}_2\text{CH}_2\text{NH}_2)$ 2 mols., 0.398, 0.083; 5 mols., 0.398, 0.056; (II) $(\text{HOCH}_2\text{CH}_2\text{NH}_2)_2$ 2 mols., 0.190, 0.197; 5 mols., 0.170, 0.187; (III) $(\text{HOCH}_2\text{CH}_2\text{NH}_2)_3$ 0.5 mol., 0.0310, 0.46; 2 mols., 0.0098, 0.55; 3.5 mols., 0.0062, 0.56. The rate, expressed by the coeff. of absorption $K = (\Delta x)/V(\Delta p)$ (where Δx = change of the vol. fraction of CO_2 in the gas as a result of absorption, V = vol. (cu. m.) of gas passed in 1 hr., Δp = mean logarithmic value of the pressure difference between gas and liquid, r = free vol. of the scrubber nozzle), given in cu. m. (CO_2)/hr. \times cu. m. \times atm., and calcd. from the compn. of the gas (in agreement within 10% with that calcd. from the liquid), was found in all cases to decrease with the mean degree α (in %) of the conversion into ethanamine carbonates that takes place in the absorption, e.g., $2 \text{HOCH}_2\text{CH}_2\text{NH}_2 + \text{H}_2\text{O} + \text{CO}_2 \rightarrow (\text{HOCH}_2\text{CH}_2\text{NH}_2)_2\text{H}_2\text{CO}_3$ and $(\text{HOCH}_2\text{CH}_2\text{NH}_2)_2\text{H}_2\text{CO}_3 + \text{H}_2\text{O} + \text{CO}_2 \rightarrow 2(\text{HOCH}_2\text{CH}_2\text{NH}_2)\text{HCO}_3$. Plots of K against α give straight lines permitting extrapolation to $\alpha = 0$; examples, temp. 50°, V (mean) = 3.4 cu. m./

cu. m. \times hr., CO_2 (mean) in gas (N_2) 3-5%, $\alpha = 0, 15, 30, 50, 80\%$; I 2 mols., $K = 2920, 2500, 2070, 1500, 800$; / 5 mols., $K = 4300, 3740, 3140, 2340, 1140$; II 2 mols., $K = 1200, 1020, 940, 600, 240$. Roughly, for I and II, increase of α by 50% results in a 50% decrease of K , whereas for III this is reached for a 20% increase of α . With increasing CO_2 content in the gas (from 3 to 50 vol. %), K decreases; with CO_2 (mean) 30%, K falls by 2-3%; when CO_2 is increased by 1%; examples, 50°, 3.4 cu. m./cu. m. \times hr., $\alpha = 0$, CO_2 3, 30, 50%, 1.5 mols., $K = 4300, 1440, 1040$; II 6 mols., $K = 1380, 760, 620$. The rate of flow of the gas, between 100 and 600 cu. m./sq. m. \times hr. for I and II, and between 20 and 70 for III, is practically without effect on K (calcd. for $\alpha = 0$, CO_2 mean 3 and 31%). Solns. of I and II decreased the CO_2 content of the gas, from 3 and 24% to about 0.008%, in about 1/2 min. of contact; III required 3 min. to decrease CO_2 from 5 to 0.02%. With increasing rate of flow of the absorbing liquid, K increases, by about 35 and 20% on doubling the rate of flow from 2 and 4 cu. m./sq. m. \times hr., resp., for CO_2 3 and 31%. At const. V , $\alpha = 0$ (and 60%) and CO_2 content (5 and 33%), and increasing concns. of ethanamine, K first increases, passes through a max., and then falls; the max. is located, for I, II, III, at 5.5, 3, 2 mole/l., resp.; the fall at high concns. is ascribed to increased viscosity. In terms of temp., K rises rapidly to about 50° and then either remains fairly const. or falls after passing through a max. For the purification of 1000 cu. m. of gas contg. 5% CO_2 , with a 5 M soln. of I, at $\alpha = 74\%$, the necessary scrubber vols. are, at 25, 50, and 75°, 1.0, 0.6, and 1.8 cu. m., resp. Under identical conditions, K is 2-2.5 times greater for I than for II, and 20-30 times greater than for III.

N. Thor

AS-5 SLA METALLURGICAL LITERATURE CLASSIFICATION

FROM LIBRARY

SERIALS MAP ONLY ONE

EDITIONS

SERIALS MAP ONLY ONE

FROM LIBRARY

SHNEYERSON, A. L.

62/49T17

USSR/Chemistry - Carbon Dioxide
Chemistry - Ethanol

Jun 49

"Absorption of Carbon Dioxide by Ethanolamines:
II, Absorption of Carbon Dioxide by Solutions
Containing a Mixture of Mono-, Di-, and
Triethanolamines," A. I. Shneyerson, A. G.
Laybush, State Inst of Nitrogen Ind, 5 pp

"Zhur Prk Khim" Vol XIII, No 6

Solubility and rate of absorption of CO₂ in
aqueous solutions containing a mixture of
ethanolamines can be calculated simply by add-
ing the values for solubility and rate of
[redacted]

62/49T17

USSR/Chemistry - Carbon Dioxide (Contd) Jun 49
absorption of CO₂ in each of the various com-
ponents. Submitted 17 Jun 48.

62/49T17

CA

2

Absorption of hydrogen sulfide and of its mixtures with carbon dioxide by ethanolamines. A. G. Leibush and A. L. Sineerson. *J. Applied Chem. U.S.S.R.* 23, 149-57(1950) (Engl. translation); *Zhur. Priklad. Khim.* 23, 145-52.— The solv. of H₂S in ethanolamine solns. rises sharply as its partial pressure is increased and diminishes with temp. rise from 15 to 80°. The solv. in monoethanolamine solns. is 2.5 to 3.5 times as high as in diethanolamine solns. CO₂ lowers the solv. of H₂S in ethanolamine solns. and H₂S likewise lowers the solv. of CO₂ in ethanolamine solns. Results are compared with Rieger's data (*C.A.* 39, 856). M. McMahon

175

2967* Rate of Absorption. (In Russian.) A. G. Leibush and A. I. Shmelevgn. *Zhurnal Prikladnoi Khimii* (Journal of Applied Chemistry), v. 23, Nov. 1950, p. 1176-1180.

Absorption of H₂S and of a mixture of H₂S and CO₂ by mixtures of mono- and diethanolamine were investigated. Influence of different factors, such as degree of transformation of ethanolamines into sulfides or carbonates, velocity of gas flow, velocity of liquid flow, concentration of ethanolamine, and concentration of CO₂ and H₂S in the gas mixture was determined.

SHNEERSON, A.L.; YEREMIN, Ye.N.

Nature of the yellow-green emission in the oxidation of nitrogen in
the electric discharge. Zhur.Fiz.Khim. 26, 1493-1503 '52.(MLRA 5:12)
(CA 47 no.13:6250 '53)

SHNEYERSON, A. L.

Caking characteristics of ammonium nitrate. A. L.
✓ Shneyerson, V. A. Klevke, and M. A. Minovich. *Zhur. Fizikal. Khim.* 29, 632-8 (1955). The effect of cooling, moisture content, KNO_3 , and compression (up to 0.2 kg./sq. cm.) on the caking characteristics of NH_4NO_3 was detd. Samples (12 g.) were heated up to 75°, compressed in a thermostat, and transferred (sample and press) into a const.-humidity box where it was allowed to cool. The caking const. K was detd. by the percentage of the sample passing through a revolving screen in 5 sec. Compression under 0.12 kg./sq. cm. of samples contg. 1.00-1.72% H_2O and cooling to 36° did not affect the value of K . Samples contg. 5% KNO_3 and 1.4% H_2O cooled to 18° did not cake. But samples contg. 2 and 2.5% KNO_3 began to cake when cooled to 20 and 18°, resp. Thermograms of these 2 mixts. showed the transition III → IV to be at 22.5 and 20.6°, resp. The values of K increased with the pressure of compression and with the moisture content. Increasing the latter from 0.45 to 0.9% increased K 5 fold; further increase to 1.8% had no effect. It was concluded that caking occurred at the transition III = IV at 32.27° (cf. Alekseenko and Boldyrev, preceding abstr.).
Bencowitz

SHNEYERSON, A L [REDACTED]

Chem ✓ Caking characteristics of ammonium nitrate. A. L. Shneerson, V. A. Klevke, and M. A. Minovich. *J. Appl. Chem. U.S.S.R.* 29, 743-7(1956)(English translation).— See *C.A.* 50, 16011f. B. M. E.

EM
file

MINIOVICH, M.A.; SHDEYERSON, A.L.; KLEVKE, V.A.

New refrigerant for the condensation of nitrogen oxides from nitrosyl gases. Zhur.prikl.khim. 31 no.11:1739-1741 N '58.

(MIRA 12:2)

(Nitrogen oxides)

(Refrigerants)

L 10197-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD

ACC NR: AP5028456:

SOURCE CODE: UR/0286/65/000/020/0019/0019

AUTHORS: Minovich, M. A.; Shneyerson, A. L.; Filippova, Zh. M.; Atroshchenko, V. I.; Zasorin, A. P.; Ivanovskiy, F. P.

ORG: none

TITLE: Method for obtaining nitric acid. Class 12, No. 175492 [announced by State Scientific Research and Design Institute for the Nitrogen Industry and Products of Organic Synthesis (Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza)]

SOURCE: Byulleten' izobreteniij i tovarnykh znakov, no. 20, 1965, 19

TOPIC TAGS: nitric acid, nitrogen oxide, nitrogen compound

ABSTRACT: This Author Certificate presents a method for obtaining nitric acid at a pressure of 4—9 atm by absorbing gaseous nitrogen oxides in water in an absorption tray-type column. To obtain 68—80% nitric acid, liquid oxides of nitrogen are introduced into the column at a point below the formation of 50—63% nitric acid. The reaction may also be carried out by introducing air into the column at a point below which the liquid oxides of nitrogen are introduced.

SUB CODE: 11/ SUBM DATE: 18Oct63/

Card 1/1

UDC: 661.56

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820005-7

A. VERSHIN, A.L., FILIPPOVA, Zh.M., MINTOVICH, M.A.

Density and viscosity of concentrated solutions of potassium nitrate within 100°-150° temperature range. Zhur.prikl.khim.
38 no.9:2110-2112 N '65.

(MIR 18:11)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820005-7"

SHNEYERSON, A.L.; MINLOVICH, M.A.; FILIPPOVA, Zh.M.; SOROKO, S.N.;
PLATONOV, P.A.

Liquid-vapor equilibrium in the systems $\text{HNO}_3 - \text{H}_2\text{O} - \text{Mg}(\text{NO}_3)_2$,
 $\text{HNO}_3 - \text{H}_2\text{O} - \text{Ca}(\text{NO}_3)_2$, and $\text{HNO}_3 - \text{H}_2\text{O} - \text{Mg}(\text{NO}_3)_2 - \text{Ca}(\text{NO}_3)_2$.
Zhur. fiz. khim. 39 no.6:1403-1407 Je '65.

(MIRA 18:11)

1. Gosudarstvennyy institut azotnoy promyshlennosti. Submitted
Feb. 13, 1964.

SHMEYERSON, A. N.

"Antitoxins Against Perfringens and Oedematiens Infections as
Antigens for Comprehensive Experimental Immunization and Revaccination."
Cand Med Sci, Central Inst for the Advanced Training of Physicians, Min
Health USSR, Moscow, 1955. (KL, No 9, Feb 55)

SO: Sum. No. 631, 26 Aug. 55 - Survey of Scientific and Technical Diss-
ertation Defended at USSR Higher Educational Institutions.
(14)

ROMANOV, G.V.; SHNEYERSON, A.N.

Phosphate-peptone agar in determining the virulence of *Corynebacterium diphtheriae*. Zhur.mikrobiol.epid. i immun. 27 no.12:34-39 D '56.
(MLRA 10:1)

1. Iz Gosudarstvennogo kontrol'nogo instituta syvorotok i vaksin imeni Tarasevicha.

(CORYNEBACTERIUM DIPHTHERIAE,
virulence, determ. with phosphate-peptone agar (Rus))

(AGAR,
phosphate-peptone agar in determ. of *Corynebacterium diphtheriae* virulence (Rus))

COMMITTEE	:	USSR
CATEGORY	:	F
AEC. JOUR.	:	REPUL., No. 3 1959, No. 10219
AUTHOR	:	Shneyerson, A. N.
INST.	:	212
TITLE	:	Comprehensive Immunization Against Gas Gangrene and Tetanus Experimentally
ORIG. VER.	:	Vsb.: Anerobnyye infektsii. Kiev, Gosmedizdat UkrSSR, 1957, 61-67
ABSTRACT	:	Rabbits were immunized intramuscularly with native or purified and concentrated perfringens and cetomains toxoids in combination with native tetanus toxoids with the addition of aluminum phosphate and ecainoline in the capacity of depository substances. A revaccination was given 2 1/2-4 months after the first immunization without the addition of the repository substances in part of the experiments. The efficacy was shown of comprehensive immunization with respect to all
Card:		1/4

REPORTER	:
CATEGORY	:
APL. NO.	: 10219
REF. NO.	:
DATE	:
TIME	:
GEN. TOP.	:
ABSTRACT	: Immunisation with repetition of it according to the indications. The rise in the titers of antitoxins after revaccination begins with the third day, reaches a maximum on the 6th to 10th day, and then gradually decreases, reaching its initial level after 4 months. At the time of maximum concentration of the toxoid the average titers of perfringens antitoxin amounted to 4.2-5.6 antitoxic units per cubic centimeter; of oedematis antitoxin 30-52 antitoxic units per cubic centimeter.
Card:	3/4

USSR / Microbiology. Anaerobic Bacilli.

F-6

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72218.

Author : Shnayerson, A. N.

Inst : Not given.

Title : Comparative Study of the Immune Properties of the Anatoxins of B. oedematis.

Orig Pub: Zh. mikrobiol., epidemiol. i immunobiologii,
1957, No 4, 146-148.

Abstract: Comparative study of the immune properties of native and purified anatoxins of B. oedematis (with single intramuscular immunization of guinea (pigs) showed that the highest activity is possessed by the purified, deposited (phosphorus acid of aluminum) anatoxins). Purified anatoxins without deposit are ineffective: guinea pigs perished from even 1 Dcl of toxin. Survival of

Card 1/2

SHNEYERSON A. N.

USSR / Microbiology. Antibiosis and Symbiosis. F-2
Antibiotics.

Abs Jour: Ref Zhur-Biol., 1958, No 17, 76702.

Author : Kivman, G. Ya.; Shneerson, A. N.
Inst : Not given.
Title : Synergism and Antagonism of Antibiotics. (Review
on Materials of Foreign Periodical Literature).

Orig Pub: Antibiotiki, Sb. perev., obz. i ref. in. period.
lit., 1957, No 6, 3-16.

Abstract: No abstract.

Card 1/1

SHNEYERSON, A.N.

Studying the toxinogenic properties of freshly isolated
Corynebacterium diphtheriae by precipitating toxin on phosphate-peptone
agar. Zhur.mikrobiol.enid. i immun.28 no.12:43-48 D '57.
(MIRA 11:4)

1. Iz Gosudarstvennogo kontrol'nogo instituta imeni Tarasevicha.
(CORYNEBACTERIUM DIPHTHERIAE,
toxin, precipitation in phosphate-peptone agar from freshly
isolated strains (Rus))

SHNEYERSON, A.N.

Effect of antibiotics on toxin formation by *Corynebacterium diphtheriae*.
Antibiotiki 3 no.2:102-106 Mr-Ap '58. (MIRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ANTIBIOTICS, effects,
on *Corynebacterium diphtheriae* toxin synthesis (Rus))
(CORYNEBACTERIUM DIPHTHERIAE, effect of drugs on,
antibiotics, on toxin synthesis (Rus))

BUYANOVSKAYA, I.S., SHNEYERSON, A.N., ANDREYEVA, N.A.

Utilization of sensitive and resistant strains of microbes in the
selection of new antibiotics [with summary in English]. Antibiotiki,
3 no.3:8:12 My-Je '58 (MIRA 11:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ANTIBIOTICS,
selection of new prep. on resist. & sensitive bact.
(Rus))

BUYANOVSKAYA, I.S.; SHNEYERSON, A.N.; ANDREYEVA, N.A.

Characteristics of the properties of variants of *Staphylococcus aureus* 209 P resistant to various antibiotics. Antibiotiki 4 no.4:99-104 Jl-Ag '59. (MIRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(STAPHYLOCOCCUS pharmacol)
(ANTIBIOTICS pharmacol)

SHNEYERSON, A.N.

Influence of brief and prolonged contact of *Corynebacterium diphtheriae* with antibiotics on certain aspects of its virulence. *Antibiotiki* 5 no.1:91-96 Ja-F '60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(*CORYNEBACTERIUM DIPHTHERIAE*) (ANTIBIOTICS)

SOLOV'YEVA, N.K.; DELOVA, I.D.; GERMANOVA, K.I.; SAVEL'YEVA, A.M.; KHOKHLOV, A.S.; MAMIOFE, S.M.; SINITSYNA, Z.T.; PETROVA, M.A.; KOROLEVA, V.A.; NAVASHIN, S.M.; FOMINA, I.P.; BUYANOVSKAYA, I.S.; VASILENKO, O.S.; YEFREMOVA, S.A.; BEREZINA, Ye.K.; VEYS, R.A.; DMITRIYeva, V.S.; SEMENOV, S.M.; SHNEYERSON, A.N.

Polymycin, a new antibiotic from the streptotricin group. Antibiotiki
5 no.6:5-10 N-D 60. (MIRA 14:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
kafedra mikrobiologii TSentral'nogo instituta usovershenstvovaniya
vrachey.

(ANTIBIOTICS)

SHNEYERSON, A.N.

Effect of antibiotics of the erythromycin group on the toxicogenic properties of diphtheria bacilli. Antitiotiki 5 no.6:65-69 N-D '60. (MIRA 14:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(CORYNEBACTERIUM DIPHTHERIAE)
(ERYTHROMYCIN)

GUBERNIYEV, M.A.; BUYANOVSKAYA, I.S.; TORBOCHKINA, L.I.; SHNEYERSON, A.N.

Phosphate-carbohydrate metabolism in antibiotic sensitive and
resistant strains of *Staphylococcus aureus* 209-P. Vop.med.khim.
(MIRA 14:1)
6 no.5;490-496 S-0 '60.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov
Ministerstva zdravookhraneniya S.S.S.R., Moskva.
(STAPHYLOCCOCUS) (PHOSPHORUS METABOLISM)

GUBERNIYEV, V.A.; UGOLEVA, N.A.; BUYANOVSKAYA, I.S.; SHNEYERSON, A.N.;
KOSHTOYANTS, N.D.; ANDREYEVA, N.A.

Studying the nucleic acid and nucleoproteins content of Staphylococcus aureus 209-P, sensitive and resistant to different antibiotics.
Biokhimiia 25 no.5:884-890 S-0 '60. (MIRA 14:1)

1. The Union Research Institute of Antibiotics, Moscow.
(STAPHYLOCOCCUS AUREUS) (NUCLEIC ACIDS)
(ANTIBIOTICS)

BUYANOVSKAYA, I.S.; SHNEYERSON, A.N.; ANDREYEVA, N.A.

Differentiation of antibiotics from the streptotricin, neomycin,
and streptomycin groups with the aid of resistant microbes.
Antibiotiki 6 no.3:255-258 Mr '61. (MIRA 14:5)

1. Laboratoriya mikrobiologicheskikh metodov kontrolya (zav.
A.Ye. Tebyakina) Vsesoyuznogo nauchno-issledovatel'skogo instituta
antibiotikov. (ANTIBIOTICS)

KIVMAN, G.Ya.; SHNEYERSON, A.N.

Monograph on a current problem ("Drug resistance of micro-organisms"
by M.N.Lebedeva, S.D.Voropaeva. Reviewed by G.IA.Kivman, A.N.
Shneerson). Antibiotiki 6 no.3:283 Mr '61. (MIRA 14:5)
(BACTERIA, EFFECT OF DRUGS ON) (LEBEDEVA, M.N.)
(VOROPAEVA, S.D.)

SHNEYERSON, A.N.; BUYANOVSKAYA, I.S.; ANDREYEVA, N.A.

Preservation of antibiotic resistance in strains of staphylococci
isolated from patients. Antibiotiki 6 no.6:526-530 Je '61.
(MIRA 15:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(STAPHYLOCOCCUS) (ANTIBIOTICS)

LEVITOV, M.M.; VVERKHVTSEVA, T.P.; RABINOVICH, M.S.; PREOBRAZHENSAYA, Ye.V.;
KULIKOVA, G.N.; BUYANOVSKAYA, I.S.; SHNEYERSON, A.N.

Biosynthesis of new penicillins using propylmercaptoacetic
acid derivatives as precursors. Antibiotiki 6 no. 7:575-581
(MIRA 15:6)
Jl '61.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(PENICILLIN) (ACETIC ACID)

SHNEYERSON, A.N.

Effect of antibiotics from the erythromycin group on some
biological properties of the diphtherial bacillus. Antibiotiki
6 no.8:725-731 Ag '61. (MIRA 15:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ERYTHROMYCIN)
(CORYNEBACTERIUM DIPHTHERIAE)

LEVITOV, M.M.; INOZEMTSEVA, I.I.; TEBYAKINA, A.Ye.; BUYANOVSKAYA, I.S.;
SHNEYERSON, A.N.; CHAYKOVSKAYA, S.M.; KOMOKINA, Z.F.; DRUZHININA, Ye.N.

New type of penicillin -- α -phenoxyethylpenicillin and study of
its microbiological properties. Antibiotiki 7 no.2:104-108 F '62.
(MIKA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(PENICILLIN)

SEMENOVA, V.A.; IL'INSKAYA, S.A.; TAYG, M.M.; MEL'NIKOVA, A.A.;
SHNEYERSON, A.E.; BUYANOVSKAYA, I.S.; VESELOV, N.M.

Study of some actinomycetes forming closely related anti-
biotics. Antibiotiki 8 no.1:12-18 Ja'63. (MIRA 16:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut anti-
biotikov.
(ACTINOMYCES) (BACTERIOLOGY—CULTURES AND CULTURE MEDIA)
(ANTIBIOTICS)

STRUKOV, I.T.; TEBYAKINA, A.Ye.; INOZETSEVA, I.I.; KOSTROMINA, O.Ye.; KAMOKINA, Z.F.; BUYANOVSKAYA, I.S.; SHNEYERSON, A.N.; CHAYKOVSKAYA, S.M.; DRUZHININA, Ye.N.

2,6-dimethoxyphenyl penicillin (methycillin) and its microbiological study. Antibiotiki 8 no.8:690-694 Ag '63. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

PANINA, M.A.; STRUKOV, I.T.; TIBYAKINA, A.Ye.; BUYAMOVSKAYA, I.S.;
SHNEYERSON, A.N.; CHAYKOVSKAYA, S.M.; DRUZHIMINA, Ye.N.;
BAGINSKAYA, P.S.; VENKINA, T.G.

β -methyl-3-phenyl-4-isoxazole pencillin (oxacillin) and its
microbiological study. Antibiotiki 8 no. 11:989-994 N '63.
(MIRA 17:9)

I. Vsesoyuznyj nauchno-issledovatel'skiy institut antibiotikov.

TEBYAKINA, A.Ye.; BUYANOVSKAYA, I.S.; CHAYKOVSKAYA, S.M.; SHNEYERSON, A.N.

Studies on the antibacterial spectrum and determination of the
biological activity of florimycin (viomycin). Antibiotiki 8 no.10:
(MIRA 17:10)
901-905 0 '63.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

STRUKOV, I.T.; VIKHROVA, N.M.; NIKITINA, N.M.; TEBYAKINA, A.Ye.; BUYANOVSKAYA,
I.S.; SHNEYERSON, A.N.; CHAYKOVSKAYA, S.M.

Phenoxybenzylpenicillin (phenbenicillin) and its microbiological
study. Antibiotiki 9 no.1:3-7 Ja '64. (MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Moskva.

SHNEYERSON, A.N.

Dynamics of the inactivation of semi-synthetic penicillins by
penicillinase-producing staphylococci. Antibiotiki 9 no.4:
(MIRA 19:1)
323-328 Ap '64.

1. Laboratoriya mikrobiologicheskikh metodov issledovaniya
(zav. A.Ye. Tebyakina) Vsesoyuznogo nauchno-issledovatel'skogo
instituta antibiotikov, Moskva.

TEBYAKINA, A.Ye.; RABINOVICH, M.S.; ZHDANOVICH, Yu.V.; STRUKOV, I.T.;
KONDRAT'YEEVA, A.P.; BUYANOVSKAYA, I.S.; SHNEYERSON, A.N.;
GRAGINSKAYA, P.S.; DRUZHININA, Ye.N.

Alpha-aminobenzylpenicillin (ampicillin) and its microbiological
studies. Antibiotiki 9 no.5.-392 My '64. (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Moskva.

RABINOVICH, M.S.; LEVITOV, M.M.; KULIKOVA, G.N.; BUYANOVSKAYA, I.S.;
SHNEYERSON, A.N.

New penicillins, derivatives of thioglycolic acid. Antibiotiki
(MIRA 18:2)
9 no.5:392-396 My '64.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Moskva.

INOZEMSEVA, I.I.; STRUKOV, I.T.; KOMOKINA, Z.F.; DVIGILENKO, N.B.;
SHNEYERSON, A.N.

Semisynthetic penicillins; chlorobutynepericillin. Antibiotiki
(MEIA 18:3)
no.8:690-692 Ag '64.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Moskva.

Симонов, А.Н.; МАДИМОВ, В.В.

Comparative studies on bactericidal effects of semisynthetic penicillins and penicillinase-resistant penicillins. Antibiotiki 9 no. 3, 605-701
(MIR, 1984)

1. laboratoriya mikrobiologicheskikh metodov issledovaniya
(zav. A.Ye. Tebyukina) Vsesoyuznogo nauchno-issledovatel'skogo
instituta antibiotikov, Kondra.